QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (150mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

10	RCC(M20)	Compressive Strength(7days and 28days)	8 set /200-250 cum	211.57	16	16
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 set /51-100 cum	99.19	10	10
12	GSB	SIEVE ANALYSIS	One Test		1	1
13	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
14	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
15	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
16	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
17	TACK COAT	Rate of spread	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-05-13-07** **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-5/W O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-01-21
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-05-13-07 **Date: 10-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-5/W O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SL No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-05-13-07** **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	187	187	1.2	98.8	90-100
3	20 mm	7276	7463	49.8	50.2	30-70
4	10 mm	4074	11537	76.9	23.1	10-35
5	4.75 mm	3000	14537	96.9	3.1	0-5
6	Pan	463	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-05-13-07** **Date: 15-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2021-05-13-07
		Date: 03-02-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-5/W O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-21
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	29/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2021-05-13-07 Date: 01-02-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-21
Sample Type /Size	:	CC Kerb Stone/ 450*150*500mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	28/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	150.51	2.664	7854	132.1	16.8	16.8	21.0
2	B	100.03	150.49	2.693	7857	135.2	17.2	17.2	21.5
3	C	100.01	150.50	2.615	7854	135.1	17.2	17.2	21.5

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-05-13-07**	**Date: 08-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.	
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/205/2020-21	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	07-04-21	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	07-04-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.8
4	Average percentage	%	4.8	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Date: 02-04-21

Lab ID	:	CP-RW-2021-05-13-07
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer Reference	:	BBMP/EE/YNK D/EPMT-5/W O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	31-03-21
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	91	91	1.8	98.2	90-100
9.5	700	791	15.8	84.2	70-88
4.75	887	1678	33.6	66.4	53-71
2.36	574	2252	45.0	55.0	42-58
1.18	482	2734	54.7	45.3	34-48
0.6	500	3234	64.7	35.3	26-38
0.3	512	3746	74.9	25.1	18-28
0.15	446	4192	83.8	16.2	12-20
0.075	341	4533	90.7	9.3	4-10
PAN	467	5000	100	0.0	0

* The Results Obtained are Satisfactory as per Standard Requirements

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Certificate No.: TC-554

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-05-13-07 **Date: 31/03/2021**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.

Agency : Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079

Customer's Reference : BBMP/EE/YNK D/EPMT-5/W O/205/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	03/03/2021	31/03/2021	149.29 X 150.57 X 151.27	22480	8.386	754.0	33.5	33.0
2	Cement Concrete Pavement	M30	03/03/2021	31/03/2021	149.56 X 149.78 X 151.23	22401	8.554	724.5	32.3	
3	Cement Concrete Pavement	M30	03/03/2021	31/03/2021	150.65 X 149.72 X 149.25	22556	8.433	750.2	33.3	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested

All information furnished by the Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certific

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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2021-05-13-07** **Date: 17-03-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	15-03-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.8	74.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.2
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.7	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/01/2021

Lab ID	:	CP-2021-05-13-07
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.
Agency	:	Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-5/W O/205/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/01/2021	27/01/2021	150.35 X 149.51 X 150.23	22479	8.380	411.0	18.3	18.6
2	Drain Bottom Slab Concrete	M20	20/01/2021	27/01/2021	150.85 X 149.75 X 151.14	22589	8.613	420.4	18.6	
3	Drain Bottom Slab Concrete	M20	20/01/2021	27/01/2021	151.75 X 150.15 X 149.72	22784	8.165	432.2	19.0	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-05-13-07 Date: 11/03/2021

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Chikkabommasandra Main and Cross Roads in Ward No-04.

Agency : Sri Vijay Kumar R. No201/16, 6th Cross Lakshminagara, Basaveshwaranagara, Bangalore-560079

Customer's Reference : BBMP/EE/YNK.D/EPMT-5/W.O/205/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-21

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/02/2021	11/03/2021	149.89 X 149.86 X 149.80	22461	8.040	516.7	23.0	22.9
2	Drain Side Wall Concrete	M20	11/02/2021	11/03/2021	151.12 X 149.14 X 150.94	22538	8.267	500.0	22.2	
3	Drain Side Wall Concrete	M20	11/02/2021	11/03/2021	149.12 X 150.85 X 151.42	22495	8.178	526.0	23.4	

• The Results Obtained are Satisfactory as per Standard Requirements

Note:

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